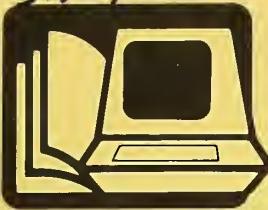


## **Historic, Archive Document**

Do not assume content reflects current scientific knowledge, policies, or practices.



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# AGRICULTURAL LIBRARIES INFORMATION NOTES

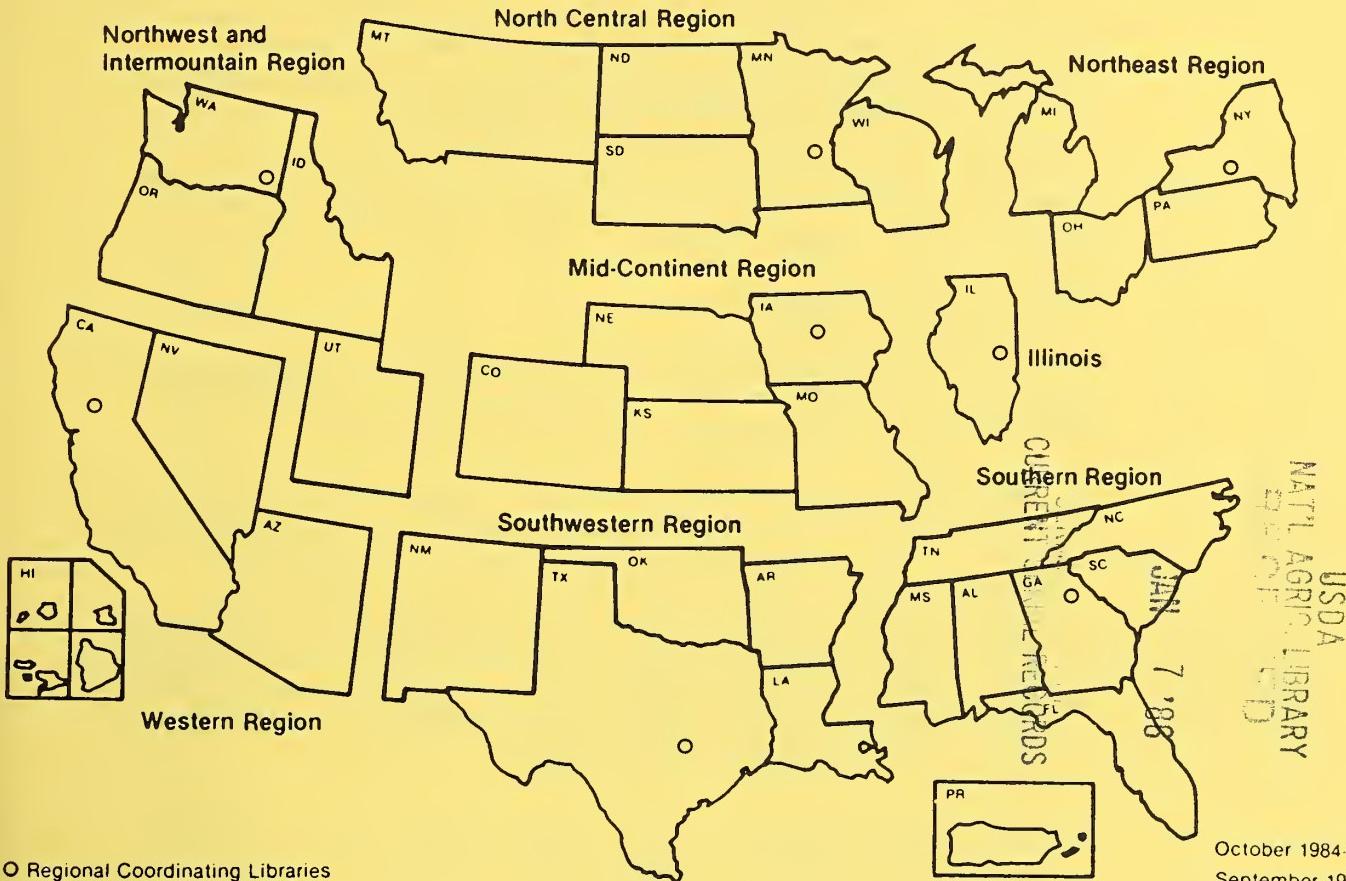
National Agricultural Library

U.S. Department of Agriculture  
Beltsville, Md. 20705

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## USDA REGIONAL DOCUMENT DELIVERY SYSTEM: VITAL LINK TO LIBRARY SERVICES



### Overview

For approximately 11 years, land-grant university libraries have participated with the U.S. Department of Agriculture (USDA), and the National Agricultural Library (NAL), to provide documents and photocopies of articles to USDA personnel and libraries in the States and regions. Thirty-six States and Puerto Rico are now covered by the Regional Document Delivery System (RDDS), with eight of the States also serving as regional coordinating libraries.

The newest member of the system is the University of Illinois. Illinois joined the RDDS August 1, 1985, adding both a new State and region to the system. A cooperative agreement signed by NAL and the University of Illinois provides for a startup period during August and September with renewal for a full year of service beginning in FY 1986.

The basic structure and operation of the RDDS are, briefly, as follows: USDA personnel and USDA field libraries in the States send their document requests to the major land-grant university library of that State. Requests are filled by the State land-grant library whenever possible with photocopies, microforms, or the loan of a hardcopy volume sent directly to the requester. Requests not filled at the State land-grant library are then sent to the regional coordinating library, where they are filled if possible. Requests that remain unfilled at the regional level are then referred to the NAL for completion.

Funding is accomplished by cooperative agreements between the regional coordinators and the NAL, whereby the regional libraries hold the funds and reimburse the State land-grant libraries monthly or quarterly. The regional coordinating libraries are in turn reimbursed by NAL receiving, via the cooperative agreement, payments for labor to coordinate the system including financial and report paperwork, local verification, and referral.

### Statistical Highlights

The routines and reporting methods within the system allow for a number of different statistical comparisons. Some of the more significant ones are summarized as follows:

- An analysis of the total system receipts and completions for the years 1974-84 shows about a 20 percent per year growth rate in the number of requests received-- except in instances where several new States or a region were incorporated. Completion levels for the same time period have ranged from 71 percent to 78 percent. Cost per request on the basis of total requests received averaged \$3.00 last year. Calculated on the basis of requests completed the cost per request averaged \$3.86.
- A study of four major indicators--changes in requests received, completion rate, and cost per item received/completed--by region for 1981-84 revealed a significant jump (approximately 65 percent) in the Southern Region's unit cost per item received/completed for 1984. The increase is attributable to the discontinuation of the free NAL, SDI service--Current Awareness Literature Service-- for which Florida had in return been providing free document delivery service, but for which it consequently had to begin charging. Also, the Northeast Region which joined the RDDS at the end of fiscal year 1983 increased 58 percent in requests received, reflecting less than a full year of operation.
- The system as a whole has expanded steadily, based on receipts since 1981. An analysis of individual State activity showed the number of land-grants (including the regionals) that received over 1,000 requests hovered around 16 or 17 from 1981-83, but in 1984 jumped to 20. In addition to the regionals, those providing active delivery

and receiving the greatest numbers of requests for the past 2 years are, in descending order: University of Florida, North Dakota State University, Utah State University, University of Idaho, and Mississippi State University. Cornell, a regional newcomer, handled 3,753 requests, up from 764 the first year. Two other States that had substantial increases in requests received during 1983-84 were Arizona (65 percent) and Oklahoma (47 percent).

Summary tabulations by region for fiscal 1984 are included in the chart below:

### USDA Regional Document Delivery System Fiscal 1984 Summary Tabulations by Region

Requests Received (Orig.)	Southern 20105	Southwest 14759	Western 5794	NW Interm. 12845	No.Cent. 12578	Mid.Cont. 3725	No.East 4260	Total 74066
Completed Comp. rate	16120 80.2%	10835 73.1%	4690 80.9%	9109 70.9%	10600 84.3%	3002 80.6%	3202 75.2%	57558 77.7%
Photocopy Vol. sent	15467 653	10413 422	4363 327	8690 419	10117 483	2741 261	3129 73	54920 2638
Not completed Referred to NAL Returned to patron # held	3895 3313 261 67	4322 4029 80 32	889 809 523 0	3419 2869 419 27	1946 1510 97 17	953 834 97 22	1129 987 114 28	16553 14351 2009 193
Searched	0	784	4	31	367	475	32	1693
Verified Not verified	0 0	567 217	4 0	31 0	296 71	34 441	26 6	958 735
<b>Costs</b>								
Photocopy	\$31,329.39	\$12,373.75	\$8,320.40	\$11,794.85	\$14,596.40	\$4,600.05	\$14,896.95	\$97,911.79
Verification	\$0.00	\$1,161.00	\$1.50	\$39.00	\$549.00	\$741.00	\$101.66	\$2,593.16
Referral fee	\$2,562.60	\$489.50	\$608.50	\$2,033.50	\$1,555.50	\$273.50	\$349.70	\$7,872.80
TWX, Tel.	\$223.01	\$0.00	\$10.55	\$10.85	\$68.24	\$31.65	\$59.99	\$404.29
Postage	\$2,828.02	\$3,180.80	\$436.69	\$2,916.17	\$1,282.79	\$278.22	\$703.30	\$11,625.99
Total	\$36,943.02	\$17,205.05	\$9,377.64	\$16,794.37	\$18,051.93	\$5,924.42	\$16,111.60	\$120,408.03
Billing to NAL	\$58,797.73	\$42,820.13	\$18,550.00	\$31,087.10	\$42,519.77	\$9,700.23	\$18,650.00	\$222,124.96
Photocopy expos. Average pages per transaction	130,409 8.4	85,726 8.2	32,874 7.5	76,537 8.8	83,009 8.2	23,591 8.6	19,178 6.1	451,324 8.2
<b>Cost per transaction</b>								
Per request rec'd	\$2.92	\$2.90	\$3.20	\$2.42	\$3.38	\$2.60	\$4.38	\$3.00
Per request compl	\$3.65	\$3.95	\$3.96	\$3.41	\$4.01	\$3.23	\$5.82	\$3.86
Average Monthly cost	\$4,899.81	\$3,568.34	\$1,545.83	\$2,590.59	\$3,543.31	\$808.35	\$1,554.17	\$18,510.41

### **Summary**

The RDDS continues to demonstrate ease of operation, ability to function without a steady interchange between patron and libraries, assimilation within the standard operating procedures of a library, and continued low cost.

Primary users of the service continue to be the Agricultural Research Service, the Forest Service, and the Soil Conservation Service, in that order. Although a few microforms are

provided, the transactions are nearly all photocopied journal articles or short reports (95 percent) and loan of hardcopy (5 percent).

Reporting mechanisms have been refined and are better understood throughout the system, largely as a result of discussing the rationale for statistical reporting and the methods. Likewise, billing and payment procedures are now more routine although they are still not without problems and errors. Most of these difficulties are the result of changing personnel in libraries and other offices. Automation of the reporting system has also begun. At the national level, the statistics are maintained on a personal computer using the software program Lotus 1-2-3.

Sudden shifts in the regional lines, for example subdividing a region, or having States work with different regions, have caused few complications. Users of the service rarely observe these changes. The addition of Missouri to the Mid-Continent Region and the creation of the Northeast Region represent changes of this type.

Finally, two activities which may have a significant impact on the future operations of the RDDS include the planned integration of regional activities with NAL's developing automated circulation system to permit improved record keeping and user data collection and a telefacsimile study project currently underway. In the latter, five USDA field libraries are working very closely with the land-grant libraries in their respective States to test the use of telefacsimile in the transmission of USDA document delivery requests to the land-grant library and the land-grant transmitting the document via telefacsimile back to the field library. The majority of the participating land-grants are also RDDS participants.

Once this study is completed, we should have a better idea where RDDS should be going with telefacsimile. This study will examine cost-effectiveness, speed, dependability, and legibility; end-user satisfaction; and impact on staff and library operations. One aspect of this study that will make it particularly interesting relative to other telefacsimile studies is that in other studies all the participants have been lenders and borrowers. In this study, one group of participants consists of borrowers and the other group consists of lenders. The study is being coordinated by Steven Brown of the University of Georgia, also an RDDS regional coordinator.

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by John B. Forbes, Network Coordination, National Agricultural Library, Room 204, Beltsville, Md. 20705. (301) 344-1563.  
Copies of the full report for 1984 with comparative data for 1974-84 are available from the author.

## **AIA MIDWINTER ACTIVITIES**

### **NAL-LAND-GRANT LIBRARIANS MEETING**

Tuesday, January 21, 1986  
Chicago Hilton and Towers  
Williford Rm. A  
2:00-4:00 p.m.

**NAL Hospitality Suite--An opportunity to meet with NAL staff to discuss problems, programs and services, and suggestions for serving you better!**

Palmer House (Room number assigned to Joe Howard available from Reservation Desk).

January 19, 9 a.m.-12 p.m. and  
1 p.m.-5 p.m.

January 20, 9 a.m.-12 p.m.,  
1-2:30 p.m., and  
4-5 p.m.

January 21, 9 a.m.-12 p.m.

**PLEASE PLAN TO JOIN US!**

## **COOPERATIVE CATALOGING PROJECT INITIATED**

The National Agricultural Library implemented a cooperative cataloging test project with the U.S. Department of Interior Natural Resources Library (NRL) in October. The project will serve as a prototype in establishing a national network of participating libraries. The NRL, and eventually all network libraries, will prepare machine-readable catalog records for agricultural monograph titles from new acquisitions. The records will be added to the AGRICOLA data base, allowing participants to contribute agricultural titles for national online accessibility. The AGRICOLA citation designating document location will display the individual "NUC" institutional symbol.

NAL has provided the NRL staff with guidelines for the selection of appropriate records and the addition of AGRICOLA subject and source codes. Although an NAL trainer was available,

the Interior Department staff felt that the guidelines were self-explanatory and that it could assign the necessary AGRICOLA codes without a structured training course. Therefore, given this experience, NAL plans to develop a correspondence course-type training package for future participants. NAL will also provide training feedback as it monitors the network tape.

The Natural Resources Library is selecting agricultural and related titles of interest according to NAL guidelines from its new acquisitions for inclusion in AGRICOLA. The NRL produces the selected records on a network enhance level authorization--symbol AGX--in order to produce the network tape of new records to be loaded into AGRICOLA.

Following the successful processing of network test tapes, the project will expand in 1986 to include other interested libraries. For further information contact Patricia L. John, Head, Cataloging Branch, (301) 344-3728.

## **AGRICOLA WORKSHOP SCHEDULED FOR NEW YEAR**

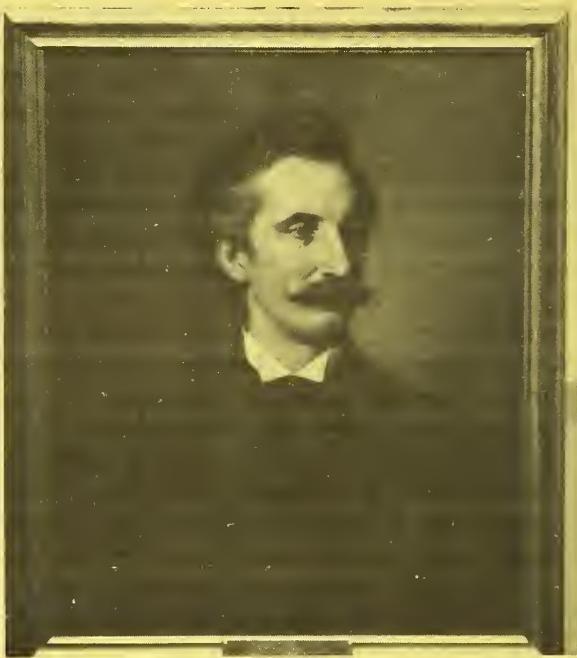
NAL is sponsoring an intensive level AGRICOLA workshop January 14-16, 1986, 9:00 a.m.-3:30 p.m., at the NAL Building in Beltsville, Maryland. The workshop will emphasize online data base access to agricultural literature in AGRICOLA (AGRICultural Online Access). Topics covered will include online systems access, Boolean logic, search strategy formulation, efficient search techniques, and basic proficiency in the searching of AGRICOLA. The seminars are designed to provide an overview of NAL services and an introduction to information retrieval through AGRICOLA.

The workshop is intended for those with a steady need to search for agricultural information from an online search system. Twenty persons will be accepted for the workshop. No prior online searching experience will be expected of participants. Extensive "hands on" experience in the use of the online system will be an integral part of the course.

Registrants are responsible for their own lodging, meals, and transportation, but equipment, manuals, and other instructional materials are provided.

Individuals wishing to attend this seminar should submit their request on letterhead stationery to: AGRICOLA Training, Attn: Charles Bebee, Room 111, National Agricultural Library, Beltsville, MD 20705. Requests for enrollment must be received at least 2 weeks prior to the workshop date. Emergency telephone reservations or inquiries may be made by calling (301) 344-3704. 

Foundation to further recognize advances in research and education within agriculture.



#### LIBRARY RECEIVES RILEY PORTRAIT

Secretary of Agriculture John R. Block accepted an oil portrait of the late Charles Valentine Riley, distinguished pioneer agricultural scientist and entomologist on November 4 for eventual display at the National Agricultural Library.

The portrait will be hung initially in the office of Orville G. Bentley, Assistant Secretary, Science and Education. It will take up permanent residence in the NAL's Special Collections Reading Room where it will be prominently displayed along with Riley's desk, writings, and other memorabilia.

"The Riley materials held here will be available for study to researchers and scholars worldwide," Joseph H. Howard, NAL Director said. "This special collection offers valuable insights to those studying agriculture's past as well as guidance and inspiration to those molding agriculture's future."

Painted in 1891 by American portrait artist Henry Ulke, the portrait was presented by Emilie Wenban-Smith of Headly Down, England. She is the granddaughter of Riley. In related events, Secretary Block signed an agreement with the newly organized Charles Valentine Riley Memorial

C.V. Riley

On accepting the portrait and signing the agreement with the Riley Foundation, Secretary Block praised Riley's early vision about the importance of science to agriculture. Over 100 years ago, Riley stated: "A virgin soil, enriched by the leafy mold of ages, and a harmonizing flora and fauna...gave to the early tiller of the soil in this country a rich reward with little labor; but at present he is beset with obstacles on every hand and none but the well-informed are successful; for success in agriculture...today, implies knowledge--scientific knowledge!"

Riley was instrumental in establishing entomology as an essential discipline in support of agriculture. The 19th century scientist is best known for his work as the first state entomologist in Missouri and as the USDA's chief entomologist from 1881 to 1894. The C.V. Riley collection joins a premier collection of rare books, manuscripts, oral history transcripts, photographs, and the donated private libraries of eminent scientists and administrators acquired by the Library over the past 120 years. 

## HISTORIC FOREST SERVICE PHOTO COLLECTION MOVES TO NAL



U.S. Forest Service

Paving the road west, July 20, 1904, this photo of a Cass County, Minnesota, railroad logger is part of the Forest Service historical image collection recently acquired by NAL.

The Forest Service historical photo collection--the largest photo collection on the subject of forestry in the world--is now part of the expanded special collections program of the National Agricultural Library (NAL). The transfer of the collection from the Forest Service to the NAL was effected through an interagency agreement signed September 30 between the two USDA agencies. The agreement calls for a 3-year pilot study in which NAL will develop procedures and systems for handling and researching collections of visual materials.

In addition to forestry, this collection of over one-half million images also includes pictorial documentation of the nation's westward movement in its later agricultural stages as well as the opening and early development of public lands. The majority of the photographs were taken between 1890 and 1940.

Photo reference and research services will be provided by NAL Special Collections personnel. William Hauser, former head of the Forest Service photo library, has joined the Special Collections staff to assist in this effort. Users can gain access to the collection via a hands-on browsing file, a microfiche image collection and through the Permanent Image Collection (PIC) data base--a batch information retrieval system. In addition, a finding aid is being prepared which will list 3,900 subject categories, arranged alphabetically and by PIC code numbers.

Indepth subject-oriented searches of the PIC data base can also be arranged. Proposed plans for enhancing access to the collection include photo reproduction on a laser videodisk for distribution to Forest Service field personnel and other interested users.

Most negatives from the historical photo collection are stored in the Still Photo section of the National Archives and Records Administration (NARA). Prints of the photos may be ordered from NARA. A processing charge will be assessed. Prints located at NAL will be loaned subject to availability.

For further information contact William Hauser, Special Collections, National Agricultural Library, (301) 344-3876. 

## NEWLY ELECTED OFFICIALS VISIT NAL

Beverly P. Lynch, 1985-86 president of the American Library Association (ALA) and Birdie O. Weir, newly elected president of the 1890 Land-Grant and Tuskegee Institute Library Directors' Association paid separate visits to the NAL this fall at the invitation of Library Director Joseph Howard.

Mrs. Weir, director of the Learning Resources Center at Alabama A&M University, conferred with Mr. Howard on establishing closer ties between the 1890 Library Directors' group she heads and the NAL. Ms. Lynch, university librarian at the University of Illinois, discussed with the Director and his staff, ways to further strengthen the ALA-NAL relationship. 



NAL Award Recipients

The National Agricultural Library held its eighth annual awards program on November 8. Eighty-seven employees were recognized for their individual and group contributions to the Library and Federal Government service. "The NAL has been moving forward dynamically this year on many important fronts," said Joseph Howard, Director, in opening remarks. "We are increasing our external cooperative efforts, refining our thesaurus, using new technologies, and developing specialized information centers. This could not be achieved without the dedicated efforts of our employees."

Warren J. Haas, President of the Council on Library Resources, delivered the keynote address. The Council, now in its 30th year, is an independently operated foundation

having as its principal objective "to aid in the solution of library problems, especially those affecting academic and research libraries." In congratulating NAL awardees, Mr. Haas focused on the role the Council has played in examining the professional education of librarians. The Council's "people programs" noted Mr. Haas have encouraged libraries to think about the continued skills development of their staffs in preparation for new skills requirements which will be demanded of librarians in the future.

Concern over the state of professional education prompted the Council to seek out and receive a 2-million dollar grant in 1980 for the expressed purpose of developing programs with the following objectives: expanding discussion between libraries and library educators, promoting evaluation of and constructive change in

library education, and providing talented librarians with specialized opportunities for skills development.

In reviewing the progress made during the last 5 years of CLR's professional education program, Mr. Haas pointed to several notable accomplishments-- among them are the sponsorship of several conferences which have studied the future of higher education and research libraries in the United States, and the development of the highly successful Senior Fellows program.



Warren J. Hass

#### Award Recipients

#### Performance Awards

Connie Ames, PSD - Lending  
Robert Anderson, PSD - Lending  
Mary Ball, Office of the Director  
Dreama Black, TSD - Serials  
Marie Boone, Office of the Director  
C. Rose Broome, Information Systems Division  
Judith Byrne, TSD - Serials  
William Crosby, Office of the Director  
Edith Fifer, Office of the Director  
Kathleen Hayes, Food, Nutrition and Human Ecology Staff  
Cheryl Moore, TSD - Indexing  
Karen Reed, TSD - Acquisitions  
Carole Shore, Food, Nutrition and Human Ecology Staff  
Mary Silva, Education and Information Staff  
Lisa Thomas, PSD - Farming and Forestry  
Barbara Thompson, TSD - Indexing  
Elizabeth Whiting - TSD - Cataloging  
Wendy Wise, PSD - Translations  
Michael Yiallouris, TSD - Indexing  
Judith Zidar, Information Systems Division

#### Quality Increase Awards

Richard Kreiner, Jr., Information Systems Division  
Annette M. Rojas, TSD - Cataloging  
Jannette Shuford-Hall, Public Services Division  
Judith Winesdorfer, TSD - Acquisitions

#### Certificate of Appreciation

Jennie Brogdon, PSD - Economics and Marketing  
Diana Claburn, TSD - Indexing  
Deborah Hanfman, PSD - Farming and Forestry  
Tamara Kavlick, PSD, Reference Branches  
Helen Kretsi, PSD - Special Collections  
Veronica Lefebvre, PSD - Lending  
Lynnora Mason, PSD - Reference Branches  
Thomas Neis, Office of the Director  
Jannette Shuford-Hall, Public Services Division  
Barbara Thompson, TSD - Indexing  
Michael Thompson, PSD - Translations  
Ronald Young, PSD - Lending

#### Group Awards

D.C. Reference Center - Sheldon Cheney, Michael Chisley, Carl Younger  
Indexing - Diana Claburn, Marie Funkhouser, Michael Thompson  
Indexing - Donald Blamberg, Shirley Gaventa, Wei-Ping Liao, Ruth Wertman  
Lending - Tamara Arozian, Helen Butler, Ethel Claiborne, Willie R. Jackson, Patricia Krug, Juanita Mobley, Eleanor Robey, Gloria Williams, Ronald Woodcock  
Public Services - Stanley Allen, Alan Fusonie, Audrey Lewis, Josephine McDowell, David Miltzow  
Special Collections - Sherry Deese, Judith Ho, Helen Kretsi, Rita Spencer

#### Length of Service

##### 35 Years

Jesse Ostroff, PSD - Farming and Forestry

##### 25 Years

Shirley Edwards, TSD - Indexing  
Edith Fifer - Office of the Director  
Eudella Jones, TSD - Serials

William Longenecker, Office of the Director  
Wallace Reeves, PSD - Lending  
Sam Waters, Office of the Director  
Ruth Wertman, TSD - Indexing

#### 20 Years

Kathleen Dougherty, TSD - Serials  
Martha Hood, TSD - Indexing  
Marilyn Jacobs, Education and Information Staff  
Eleanor Robey, PSD - Lending (Retired)  
Gerald Sophar, Office of the Director  
Helen Y. White, TSD - Cataloging

#### 10 Years

Idalia Acosta, TSD - Serials  
Jean Bellows, PSD - Farming and Forestry  
Donald Blamberg - TSD, Indexing  
Ruth Finnblade, TSD - Serials  
Marie Funkhouser, TSD - Indexing  
Jane McLeod, TSD - Serials  
Jerome Rafats, TSD - Economics and Marketing  
Annette Rojas, TSD - Cataloging  
Elizabeth Whiting, TSD - Cataloging

#### Awards Committee Members

Carole Shore, Chairperson; Marilyn Jacobs, Vice Chairperson; Andreeene Green, Recorder; Mary Ball, Diana Claburn, Shirley Edwards, Helen Kretsi, Jayne MacLean, Jeff Maier, Carolyn Williamson, Don Yeldell.



Copies of the new Special Reference Briefs, Killer Bees (NAL SRB-86-01), by Jerry Rafats, Economics and Marketing Branch, is available free upon request. Send a self-addressed mailing label with request to Reference Branches, Room 111, National Agricultural Library, Beltsville, MD 20705.

#### **MARK YOUR CALENDAR!**

Be sure to save December 1-2 next year for a meeting of agricultural specialists in Washington, D.C. This meeting is being held in conjunction with the biennial field librarians workshop (FIFL), which will run from November 30 to December 5, 1986, at the Shoreham Hotel in Washington.

The meeting will be similar in purpose to the joint NAL/Land-Grant/Field Librarians meeting held jointly with FIFL in November 1984. As many of you know, no meeting will be held in 1985. Additional information will be published as it becomes available.

#### **AGENT ORANGE COLLECTION DONATED TO NATIONAL AGRICULTURAL LIBRARY**

The National Agricultural Library has received a significant and comprehensive collection of materials on Agent Orange, the herbicide. Widely used as a defoliant in Vietnam during the 1960s, Agent Orange became the subject of concern following reports of alleged adverse effects on humans and the environment from exposure to the herbicide.

The collection was transferred from the Veteran's Administration Library to NAL on the initiative of Dr. Alvin Young, Office of Science and Technology Policy, Executive Office of the President. Dr. Young amassed literature and documents relating to phenoxy herbicides and associated dioxins during almost 20 years of research on the topic during his career in the U.S. Air Force and, more recently, at the Veterans Administration.

Approximately two-thirds of the collection relates to the effects of Agent Orange on plants and animals. Included in the donation, which complements NAL's extensive holdings in herbicide research, are monographs, newspaper and journal reprints, technical reports, hearings testimony, and audiovisuals.

Access to the collection currently exists through a manual indexing system. NAL is presently seeking support to catalog and index the materials for input into AGRICOLA--the Library's computerized data base system and index to more than 2 million books and articles relating to all aspects of agriculture. For further information contact Sarah Thomas, Chief, Technical Services Division, National Agricultural Library, Beltsville, Maryland 20705, (301) 344-3834. 

#### ALA PUBLISHES BIBLIOGRAPHIC INSTRUCTION DIRECTORY

The Library Instruction Round Table of the American Library Association (ALA) has published "It Really Works: A Directory of Programs, Courses and Resource People for Bibliographic Instruction Librarians."

The 50-page directory lists workshops and programs, including objectives, contact people, speakers and sponsoring organizations; continuing education courses; bibliographic instruction sessions that were parts of broader professional conferences; and bibliographic instruction librarians who have been identified as speakers, consultants, authors, instructors, coordinators and/or planners.

"It Really Works" is \$4 a copy for Library Instruction Round Table members and \$5 a copy for nonmembers. Checks or purchase orders should be made payable to the American Library Association. Send orders, with a self-addressed label, to Pamela Engelbrecht, Newman Library, Virginia Tech, Blacksburg, VA 24061. 

#### NEW PUBLICATIONS FROM NAL

The following bibliographies continue the series of commodity-oriented environmental bibliographies reported in the October issue of ALIN. The sources referenced include most of the latest information available from U.S. publications involving commodity protection throughout the growing and processing stages. Copies are available from the National Technical

Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161. Telephone: (703) 487-4780.

#### Chemigation/Irrigation, January

1970-December 1984: Citations from AGRICOLA Concerning Diseases and Other Environmental Considerations. Compiled by Charles N. Bebee, Beltsville, Md., U.S. Department of Agriculture, National Agricultural Library and Washington, D.C., U.S. Environmental Protection Agency, Office of Pesticide Programs. (Bibliographies and Literature of Agriculture No. 39.) August 1985. 65 p. \$11.95 (paper) and \$5.95 (microfiche). PB86-109931/AS.

The Protection of Pome Fruits, 1979-March 1985: Citations from AGRICOLA Concerning Diseases and Other Environmental Considerations. Compiled by Charles N. Bebee, Beltsville, Md., U.S. Department of Agriculture, National Agricultural Library and Washington, D.C., U.S. Environmental Protection Agency, Office of Pesticide Programs. (Bibliographies and Literature of Agriculture No. 41.) August 1985. 204 p. \$22.95 (paper) and \$5.95 (microfiche). PB86-114139/AS.

#### The Protection of Stone Fruits, Excluding Cherries, 1979-March 1985: Citations from AGRICOLA Concerning Diseases and Other Environmental Considerations.

Compiled by Charles N. Bebee, Beltsville, Md., U.S. Department of Agriculture, National Agricultural Library and Washington, D.C., U.S. Environmental Protection Agency, Office of Pesticide Programs. (Bibliographies and Literature of Agriculture No. 40.) August 1985. 89 p. \$11.95 (paper) and \$5.95 (microfiche). PB86-115748/AS.

#### The Protection of Wheat: January

1980-December 1984: Citations from AGRICOLA Concerning Diseases and Other Environmental Considerations. Compiled by Charles N. Bebee, Beltsville, Md., U.S. Department of Agriculture, National Agricultural Library and Washington, D.C., U.S. Environmental Protection Agency, Office of Pesticide Programs. (Bibliographies and Literature of Agriculture No. 43.) September 1985. 229 p. \$22.95 (paper) and \$5.95 (microfiche). PB86-115391/AS. 

## PANEL DISCUSSION FOCUSES ON FUTURE OF AGRICULTURAL DATA BASES

The three leading producers of agricultural bibliographic information met October 29 as part of the Professional Seminar Programs recently instituted at NAL.

During the panel discussion the participants--J.R. Metcalfe, Director Information Services, Commonwealth Agricultural Bureaux; Emile Samaha and Abe Lebowitz, AGRIS Coordination Center; and Joe Howard, Director, NAL--reaffirmed an earlier commitment made at the International Association of Agricultural Librarians and Documentalists (IAALD) conference to strengthen cooperation. At the June conference a resolution was passed calling for the producers of AGRICOLA, AGRIS, and CAB to work together to insure against duplication and to maintain a channel of communication for discussion of other issues of mutual concern. In the well attended session each speaker highlighted the continuing evolution of their respective data bases with a view toward the future.

CAB, soon to become CAB International, marked its 55th year with the adoption of a new constitution opening membership beyond the Commonwealth to all countries. Two important characteristics of the CAB data base are its selectivity and the presence of abstracts. These points distinguish them from the more comprehensive and less detailed approaches in AGRICOLA and AGRIS. CAB, a self-supporting organization, will continue its tradition of providing a worldwide information service for agricultural scientists while working toward complementing AGRICOLA and AGRIS.

The AGRIS data base took a significant step forward in reaching a wider audience with the November 1 announcement of its availability on the DIALOG system (File 20). The data base, an international cooperative information system, will not include its U.S. input from AGRICOLA. AGRIS has expanded beyond its initial mission

to provide a global inventory of all agricultural publications. Now in its 10th year of operation, AGRIS provides, on demand, specialized output products such as national and topical agricultural bibliographies, SDIs, training workshops, and seminars.

The AGRICOLA data base added a new dimension to its controlled subject access through the adoption of the CAB Thesaurus earlier this year. In plotting out a future course for AGRICOLA, the NAL will be working to encourage countries to do their own indexing and cataloging for input into an appropriate bibliographic utility. AGRICOLA will have as its top priority the indexing of U.S. publications. The identification of titles being indexed elsewhere and the consequent elimination of much duplicative indexing will continue along with plans to compile a world list of agricultural serials with an indication of where each title is indexed.

At the session's conclusion all agreed that with the proliferation of agricultural information predicted to continue, closer coordination between AGRICOLA, AGRIS, and CAB can only result in more efficient and economical access to the literature of agriculture for users.



### Correction

The photo caption reporting the reception for Layne R. Beaty (ALIN, October 1985, page 6) should have stated "From (l.) to (r.) are Jules Renaud, Larry Quinn, Beaty, Jack Towers, and Bill Pemble."



## VISITORS

During the past 3 months NAL was pleased to host the following international visitors. As the designated U.S. center for the international agricultural information system, NAL is actively involved in enhancing global access to agricultural data.

**Wang Hongmo, Mu Jiyuan, Zhao Jiping, Li Qingqi, Shu Huairui, and Xue Jian, Shandong Agricultural University, People's Republic of China.**

**Arruda Pinto, EMBRAPA-DDT, Brasilia, Brazil.**

**Nicholas Efstathiadis, Agricultural Counselor, Embassy of Greece.**

**Jayne Toweii, International Institute of Strategic Studies, London, England.**

**Brian Cox, British Crop Protection Council, West Sussex, England.**

**P.D. Strachan, International Federation of Documentation, The Hague, Netherlands.**

**Matthew A. Afoiayan, Yaba College of Technology, Lagos, Nigeria.**

**J.O. Soiola, United Bank for Africa, Ltd., Lagos, Nigeria.**

**H.M. Fayiga, National Institute for Medical Research, Yaba, Nigeria.**

**A.O. Majasan, Nigerian Stored Products Institute, Lagos, Nigeria.**

**Experanza Basaca, Maribei Paiafox, and Josefina Manatad, National Science and Technology Authority, Manila, Philippines.**

**Takahisa Sawamoto, Japan Association of Agricultural Librarians and Documentalists, Tokyo, Japan.**

**Martha Stone, International Development Research Centre, Ottawa, Canada**

**Rene P.M. Van Schie, Victor Rood, Robert Van Lopik, William Van Essenburg, Ministry of Agriculture and Fisheries, The Netherlands.**



## OPEDA AWARD PRESENTED TO ALAN FUSONIE

NAL's Historian and Head of the Special Collections Division, Alan Fusonie, was recently presented with the National Honor Award from the Organization of Professional Employees of the U.S. Department of Agriculture (OPEDA) "for his exemplary performance that demonstrates to all USDAers the high quality of work and productivity that results from the practice of professionalism."



Alan, who has been with NAL for 16 years, has been an active member of OPEDA since 1970 serving on their National Board of Directors and as President of the Beltsville, MD Chapter. Dr. Fusonie has been a part-time professor of American history at Prince George's Community College and the University of Maryland, and has given many slide lectures relating to agricultural and horticultural history to local community organizations. Alan resides in Calvert County, in Southern Maryland, where he operates a small horse farm.



### FIRST COME, FIRST SERVED!

**Agrindex (Food and Agriculture Organization of the United Nations)-experimental issue (1973); V. 1 (1), 1975 - V. 8 (4) 1982. Contact Jim Harold, U.S. A.I.D. Library, Rm. 105 SA-18, Washington, D.C. 20523. (703) 235-1000.**

## SURPLUS PUBLICATIONS AVAILABLE

The following publications are surplus to the needs of the National Agricultural Library's collection. They will be made available to any interested organization that regularly sends free publications to NAL. This includes most Federal, land-grant, and agricultural research institutions as well as many others. Foreign institutions will need to provide a U.S. mailing address or make other special arrangements with U.S. sources for shipment of material.

If interested, please write to:  
National Agricultural Library, USDA,  
Attn: Collection Development,  
Room 204, Beltsville, MD 20705, or call  
Leslie Kulp, (301) 344-1562.

1. Association of Southern Agricultural Workers; Proceedings, Abstracts of Papers and Addresses - v. 46, 1945 - v. 68, 1971 (v. 55 missing)
2. Canadian Forest Industries - v. 84, 1964 - v. 93, 1973 (bound; v. 91 missing)
3. Commercial and Financial Chronicle - v. 12, 1871 - v. 203, 1967 (mostly bound)
4. The Green Thumb - v. 1, 1944 - v. 16, 1959 (mostly bound).
5. Journal of Agriculture of the University of Puerto Rico - v. 7, 1923 - v. 58, 1974 (mostly bound; few missing)
6. Journal of the American Veterinary Medical Association - v. 106, 1945 - v. 127, 1955 (bound)
7. The Laboratory: Current Developments in Instrumentation and Techniques - v. 11, 1941 - v. 36, 1968.
8. Proceedings of the U.S. Livestock and Sanitary Association - 1915-16, 1920-30, 1933-34, 1936-42, 1946-63, 1965-77, 1980-84



## CHARLES VALENTINE RILEY NOTE CARD



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NAL--Q.B.--86-01. EMBRYO TRANSFER. 236 citations from AGRICOLA. English only. Searched by Sheldon Cheney. October 1985.

NAL--Q.B.--86-02. WOOD FUEL. 199 citations from AGRICOLA. English only. Searched by Sheldon Cheney. October 1985.

NAL--Q.B.--86-03. ECOLOGY OF TROPICAL RAINFORESTS. 180 citations from AGRICOLA. English only. Searched by Jayne T. MacLean. October 1985.

NAL--Q.B.--86-04. PINK BOLLWORM (PECTINOPHORA GOSSYPIELLA). 244 citations from AGRICOLA. English only. Searched by Jayne T. MacLean. October 1985.

NAL--Q.B.--86-05. ALLELOPATHY: THE HARMFUL EFFECTS OF CHEMICALS PRODUCED BY ONE PLANT UPON ANOTHER. 335 citations from AGRICOLA. Languages none excluded. Searched by Henry Gilbert. October 1985.

NAL--Q.B.--86-06. GRASSHOPPER CONTROL. 121 citations from AGRICOLA. English only. Searched by Jerry Rafats. October 1985.

NAL--Q.B.--86-07. GINSENG. 217 citations from AGRICOLA. English only. Searched by Jerry Rafats. October 1985.

NAL--Q.B.--86-08. CHRISTMAS TREES: PRODUCTION AND ECONOMICS. 244 citations. English only. Searched by Jerry Rafats. October 1985.

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NAL--Q.B.--86-10. POTENTIAL NEW CROP: CUPHEA. 60 citations from AGRICOLA. Languages none excluded. Searched by Jerry Rafats. October 1985.

NAL--Q.B.--86-11. POTENTIAL NEW CROP: GUAYULE. 148 citations from AGRICOLA. Languages none excluded. Searched by Jerry Rafats. October 1985.

NAL--Q.B.--86-12. POTENTIAL NEW CROP: KENAF, COMMERCIAL FIBER AND PULP SOURCE. 188 citations from AGRICOLA. Languages none excluded. Searched by Jerry Rafats. October 1985.

NAL--Q.B.--86-13. POTENTIAL NEW CROP: MEADOWFOAM. 53 citations from AGRICOLA. Languages none excluded. Searched by Jerry Rafats. October 1985.

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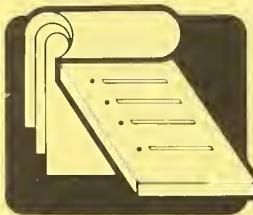
NAL--Q.B.--86-16. TISSUE CULTURE. 178 citations from AGRICOLA. English only. Searched by Henry Gilbert. October 1985.

NAL--Q.B.--86-17. JOJOBA. 230 citations from AGRICOLA. Languages none excluded. Searched by Henry Gilbert. October 1985.

NAL--Q.B.--86-18. AFRICAN ECONOMIC DEVELOPMENT, 1979-85. 247 citations from AGRICOLA. Languages none excluded. Searched by Mary E. Lassanyi. October 1985.

NAL--Q.B.--86-19. INTEGRATED PEST MANAGEMENT. 192 citations from AGRICOLA. English only. Searched by Jayne T. MacLean. November 1985. Updates 83-33.

NAL--Q.B.--86-20. URBAN HORTICULTURE. 160 citations from AGRICOLA. English only. Searched by Jayne T. MacLean. November 1985. Updates 84-37.



## NEW SERIALS RECEIVED AT NAL

BIOLOGY AND FERTILITY OF SOILS. Secaucus, NJ, Springer International. 4/yr. (1985)-

QH84.8.B46

BIOSENSORS. Essex, England, Elsevier Applied Sci. Publ. 4/yr. Vol. 1, no. 1. (1985)-

R856.A1B46

THE BIOTECHNOLOGY DIRECTORY. New York, NY, Nature Press. a. (1985)-  
TP248.3.C66

BIOTECHNOLOGY PROGRESS. New York, NY, AIChE. q. Vol. 1, no. 1 (Mar. 1985)-  
TP248.2.B46

EXPERIMENTAL AND APPLIED ACAROLOGY. New York, NY, Elsevier. q. Vol. 1, no. 1 (Mar. 1985)-

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FOOD REVIEWS INTERNATIONAL. New York, NY. Marcel Dekker. 3/yr. Vol. 1, no. 1 (1985)-

TX341.F662

MIRCEN. JOURNAL OF APPLIED MICROBIOLOGY AND BIOTECHNOLOGY: A RESEARCH JOURNAL FOR BIOTECHNOLOGY IN THE DEVELOPING WORLD. Oxford, England, Oxford University Press. q. Vol. 1, no. 1 (1985)-

QR1.M562



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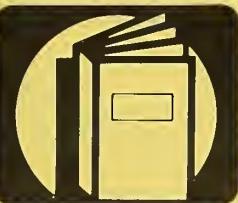
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## NEW PUBLICATIONS OF NOTE

THE 1984-85 PUBLIC INFORMATION CONTACT DIRECTORY. 1985. Washington, D.C., American Association for the Advancement of Science. Lists 400 institutions conducting scientific research. \$8.00. Order from AAAS Office of Communications, 1776 Massachusetts Ave., N.W., Rm. 601, Washington, D.C. 20036

\*AUTOMATED BEEF CARCASS CLEANING SYSTEM. Washington, D.C., U.S. Department of Agriculture, Agricultural Research Service. 1984. 23 p. (Utilization Res. Report No. 7). \$1.75. S/N 001-000-04410-9.

\*BEHAVE: FIRE BEHAVIOR PREDICTION AND FUEL MODELING SYSTEM - FUEL SUBSYSTEM. Washington, D.C., U.S. Department of Agriculture, Forest Service. 1984. 126 p. (General Technical Report INT-167). \$5.00. S/N 001-001-00596-7.

\*\*BEHAVIORAL CHEMICALS PRODUCED BY "HELIOTHIS" SPECIES. BIBLIOGRAPHIC DATA BASE, 1964-83. Beltsville, MD, U.S. Department of Agriculture, Agricultural Research Service. May 1985. 49 p. (Report No. ARS-35). \$9.95. PB85-211100/XAB.

\*\*BIBLIOGRAPHY OF AGRICULTURAL BIBLIOGRAPHIES, 1978-82. CATEGORIZED LISTING OF BIBLIOGRAPHIES INDEXED IN AGRICOLA. Beltsville, MD, U.S. Department of Agriculture, National Agricultural Library. Feb. 1985. 172 p. (Report No. BLA-32). \$16.00. PB85-187649.

\*\*BIOLOGY AND MANAGEMENT OF THE GAMBEL OAK VEGETATIVE TYPE: A LITERATURE REVIEW. Ogden UT, U.S. Department of Agriculture, Forest Service, Intermountain Forest and Range Experiment Station. March 1985. 36 p.

(Report No. FSGTR/ INT-179). \$9.95. PB85-189900/XAB.

\*BRAZILIAN SOYBEAN INDUSTRY: ECONOMIC STRUCTURE AND POLICY INTERVENTIONS. Washington, D.C., U.S. Department of Agriculture, Economic Research Service. 1984. 35 p. (Foreign Agric. Economic Report No. 200). \$2.00. S/N 001-019-00332-4.

\*\*CAPITAL GAINS TREATMENT OF TIMBER INCOME: AN ECONOMIC ASSESSMENT. Broomall, PA, U.S. Department of Agriculture, Forest Service, Northeastern Forest Experiment Station. April 1985. 10 p. (Report No. NEFES/85-10). \$9.95. PB85-197077/XAB.

\*\*COLORADO'S INDUSTRIAL ROUNDWOOD PRODUCTION AND MILL RESIDUES, 1982. Ogden, UT, U.S. Department of Agriculture, Forest Service, Intermountain Forest and Range Experiment Station. April 1985. 18 p. (Report No. FSRB/ INT-35). \$9.95. PB85-194652/XAB.

\*\*COMPARISON OF MANUFACTURED HOUSING THERMAL CHARACTERISTICS. Washington, D.C., U.S. Department of Agriculture, Farmers Home Administration. Sept. 1984. 47 p. (Report No. FMHA-84-1). \$9.95. PB85-110849/XAB.

COMPUTERS AND ELECTRONICS IN AGRICULTURE. 1985/86. J.R. Lambert (Ed.). \$70.25. Order from Elsevier Science Publishers, 52 Vanderbilt Ave., New York, NY 10017.

\*COMPUTERS ON THE FARM: FARM USES FOR COMPUTERS, HOW TO SELECT SOFTWARE AND HARDWARE, AND ONLINE INFORMATION SOURCES IN AGRICULTURE. Washington, D.C., U.S. Department of Agriculture, Office of Governmental Affairs. 1984. 37 p. (Farmers Bulletin No. 2277). \$11.75. S/N 001-000-04413-3.

\*\*COOPERATIVE PETROLEUM OPERATIONS. Washington, D.C., U.S. Department of Agriculture, Agricultural Cooperative Service. April 1985. 36 p. (Report No. CIR-1-SECT-23). \$9.95. PB195535/XAB

\*\*COSTS OF FIRE SUPPRESSION FORCES BASED ON COST-AGGREGATION APPROACH. Berkeley, CA, U.S. Department of Agriculture, Forest Service, Pacific Southwest Forest and

Range Experiment Station. July 1984.  
22 p. (Report No. FSRP/PSW-171).  
\$9.95. PB85-105856/XAB.

\*\*COSTS OF PRODUCING MAJOR CROPS,  
1975-81. Washington, D.C., U.S.  
Department of Agriculture, Economic  
Research Service. April 1985. 71 p.  
(Report No. AGES-850329). \$11.95.  
PB85-199024/XAB.

\*DESIGN OF SMALL DIAMETER VARIABLE  
GRADE GRAVITY SEWERS. Washington,  
D.C., U.S. Department of Agriculture,  
Agricultural Research Service. 1984.  
13 p. (Agric. Handbook No. 626).  
\$1.25. S/N 001-000-04412-5.

DIVERSITY. A NEWS JOURNAL FOR THE  
PLANT GENETIC RESOURCES COMMUNITY.  
1986. Quarterly. \$35.00  
(Government/Nonprofit Institution);  
\$55.00 (all others). Order from  
Genetic Resources Communications  
Systems, Inc., 727 8th Street, S.E.,  
Washington, D.C. 20003.

\*ECOLOGICAL LAND CLASSIFICATION  
FRAMEWORK FOR THE UNITED STATES.  
Washington, D.C., U.S. Department of  
Agriculture, Forest Service. 1984.  
62 p. (Misc. Publication No. 1439).  
\$2.50. S/N 001-000-04417-6.

\*\*\*GREAT AMERICAN AZALEAS: A GUIDE TO  
THE FINEST AZALEA VARIETIES. 1985.  
Jim Darden, Greenhouse Press. 96 p.  
\$9.95.

\*\*\*GROWING LILIES. 1985. Derek Fox,  
Croom Helm Publishers. 164 p.  
\$17.95.

\*GUIDE FOR IDENTIFICATION OF  
VERTICILLIUM WILT IN ALFALFA.  
Washington, D.C., U.S. Department of  
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Service. 1984. 10 p. (Agric. Info.  
Bull. No. 456). \$1.25. S/N  
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\* IMMIGRATION REFORM AND AGRICULTURAL  
LABOR. Washington, D.C., U.S.  
Department of Agriculture, Economic  
Research Service. 1984. 34 p.  
(Agric. Economic Report No. 510).  
\$2.00. S/N 001-000-04411-7.

JOURNAL OF THE INTERNATIONAL ASSOCIATES OF  
AGRICULTURAL ECONOMISTS. 1986. Douglas D.  
Hedley (Ed.). Vol. 1 in 4 issues. \$77.25.  
Order from Elsevier Science Publishers, 52  
Vanderbilt Ave., New York, NY 10017.

\*LIST OF PROPRIETARY SUBSTANCES AND NONFOOD  
COMPOUNDS AUTHORIZED FOR USE UNDER USDA  
INSPECTION AND GRADING PROGRAMS,  
SUPPLEMENT. Washington, D.C., U.S.  
Department of Agriculture, Food Safety and  
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Publication No. 1419). \$1.50. S/N  
001-000-04428-1.

\*MARKETING FRESH TOMATOES, SYSTEMS AND  
COSTS. Washington, D.C., U.S. Department  
of Agriculture, Agricultural Marketing  
Service. 1984. 28 p. (Marketing Res.  
Report No. 1137). \$1.75. S/N  
001-000-04400-1.

\*\*\*THE ROCK GARDENER'S HANDBOOK. 1985.  
Alan Titchmarsh, Croom Helm Publishers.  
203 p. \$9.95.

TELECOMMUNICATION FOR LIBRARY MANAGEMENT.  
1985. Richard W. Boss. 180 p. \$36.50.  
Order from Knowledge Industry Publications,  
Inc., 701 Westchester Ave., White Plains,  
NY 10604.

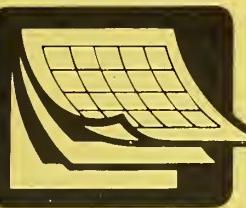
\*U.S. GOVERNMENT PURCHASING AND SALES  
DIRECTORY. Washington, D.C., Small  
Business Administration. 1984 (Rev.). 199  
p. \$5.50.

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\*Order from Superintendent of Documents,  
U.S. Government Printing Office,  
Washington, D.C. 20402. Tel.: (202)  
783-3238.

\*\*Order from National Technical Information  
Service, Identification Section, 5285 Port  
Royal Road, Springfield, VA 22161. Tel.:  
(703) 487-4780. All titles listed are  
available in microfiche for \$5.95 each.

\*\*\*Order from International Specialized  
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OR 97075. Tel.: (503) 292-2606. 



## AGRICULTURE DATEBOOK

January 11-14: AMERICAN FARM BUREAU FEDERATION 67TH ANNUAL MEETING AND TRADE SHOW. Atlanta, GA. Contact: John Elsner, Pro-Expo, Inc., 4815 S. Harvard, Suite 600, Tulsa, OK 74135. Tel.: (918) 742-1054.

January 19-23: AQUACULTURE RENO '86. MGM Grand Hotel, Reno, NV. Contact: Linda Cooper, P.O. Box 34123, Little Rock, AR 72203-4123. Tel.: (501) 376-7346.

January 20-22: BIO/TECHNOLOGY LOOKS TO THE NEXT DECADE. Clarion Hotel, New Orleans, LA. Contact: Nature Publishing Co., 65 Bleecker St., New York, NY 10012. Tel.: (212) 477-9600.

January 20-24: INTERNATIONAL SYMPOSIUM ON AGRICULTURAL ENGINEERING. Pretoria, South Africa. Contact: The Symposium Secretariat, S.337, CSIR, P.O. Box 395, Pretoria 00001, South Africa.

February 4-6: THE INAUGURAL AUSTRALIAN SORGHUM CONFERENCE. Queensland Agricultural, Brisbane, Australia. Contact: M.A. Foale, Cooper Laboratory, Lawes (Gatton) 4343, Australia. Tel.: (075) 621611.

February 12-13: FOURTH ANNUAL CONSERVATION TILLAGE CONFERENCE. Pocatello, ID. Contact: Mark Weatherstone, 130 S. State, Preston, ID 83263. Tel.: (208) 852-0562.

March 3-5: 28TH ANNUAL NFAIS CONFERENCE. "Innovations in Information Delivery." Philadelphia, PA. Contact: NFAIS, 112 South Sixteenth St., Philadelphia, PA 19102. Tel.: (215) 563-2406.

March 17-21: SECOND INTERNATIONAL CONFERENCE ON THE APPLICATION OF MICRO-COMPUTERS IN INFORMATION DOCUMENTATION AND LIBRARIES. Baden-Baden, Federal Republic of Germany. Contact: Deutsche Gesellschaft fuer Dokumentation e.V. (DGD), Westendstrasse 19, D - 6000 Frankfurt am Main 1, Federal Republic of Germany.

March 18-20: NATIONAL PLANT GERMPLASM COMMITTEE MEETING. Geneva, NY. Contact: Paul Fitzgerald, USDA/ARS, 2000 W. Pioneer Pkwy., Peoria, IL 61615. Tel.: (309) 685-4011.

March 24-28: 4TH CHEMRAWN WORLD CONFERENCE ON THE GLOBAL OCEAN--ITS CHEMISTRY AND RESOURCES. Woods Hole, MA. Contact: CHEMRAWN IV Coordinating Office, Oceanography Program, University of Michigan, 2455 Hayward Ave., Ann Arbor, MI 48209-2143. Tel.: (313) 763-2316.

April 21-24: INTERNATIONAL WHEAT CONFERENCE. Cairo, Egypt. Contact: Virgil Johnson, Dept. of Agronomy, University of Nebraska, Lincoln, NE 68583-0915.

April 21-24: VIV-ASIA IN JAPAN. International exhibition of technology and systems for intensive animal production. Harumi Fairground, Tokyo. Contact: James Shaw & Assoc. Inc., 1 Burnhamthorpe Park Blvd., Islington, Ont. M9A 1HB, Canada.

May 7-13: 59TH INTERNATIONAL AGRICULTURAL SHOW. Hanover, Germany. Contact: German Agricultural Society, Zimmerweg 16, D-6000 Frankfurt am Main 1. 

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